# Request to Archive
# With The National Centers for Environmental Information
# For Gridded Satellite CONUS Coverage (GridSat-CONUS)
# Provided by NCEI

## 2017-01-06

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

**1. Who is the primary point of contact for this request?**

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**2. Name the organization or group responsible for creating the dataset.**

DOC/NOAA/NESDIS/NCEI > National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce

**3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.**

The Gridded Satellite CONUS Coverage dataset (GridSat-CONUS) is an easier to use version of the GOES-GVAR data in the present CLASS archive.

The data are 15-min gridded files which span the Contiguous United States at 4 km resolution. The GOES data are calibrated, mapped and navigated. The data from various GOES scan schedule images are merged temporally to provide a fixed temporal resolution. The data are also CF (Climate & Forecasting Convention) compliant and follow the ACDD metadata (Attribute Conventions for Data Discovery).

The data are provided in a standard way, thus simplifying access to one of the most requested NOAA datasets.

**4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)**

From 1994-10-01
Ongoing as continuous updates to the data record

**5. Edition or version number(s) of the dataset:**

v01

**6. Approximate date when the dataset was or will be released to the public:**

2017-03-31

**7. Who are the expected users of the archived data? How will the archived data be used?**

GOES Data is currently the 2nd largest accessed data by volume.
Many of these users then contact customer service for help accessing, reading, processing the data. This dataset will help users access the data.

**8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?**
No

**9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?**
GOES GVAR - The data derive directly from the GOES GVAR. While there is much value added to the GOES GVAR (reformatted, calibrated, navigated) there is little information added. That is, it is merely brightness temperatures and calibrated reflectances.

GridSat-GOES - This is the same format, but CONUS is at a higher temporal resolution.

GridSat-B1 - The data are related to GridSat B1. GridSat B1 is a climate quality dataset with global coverage. The Gridded-GOES is a regional dataset provided in the same manner (CF compliant files) but at a higher resolution).

**10. List the input datasets and ancillary information used to produce the data.**
GOES GVAR - provides input satellite data
NOAA GOES webpages - used to access the calibration information

**11. List web pages and other links that provide information on the data.**
None.

**12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.**
1. Code can be archived.

**13. Indicate the data file format(s).**
1. netCDF-4

**14. Are the data files compressed?**
netCDF-4/HDF5 compression

**15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).**
Gridded-CONUS.sat.year.mon.day.hhmm.v01.nc
e.g.,
GridSat-CONUS.goes10.2003.10.07.1800.v01.nc

Files are hourly but can be tarred up into daily SIPs, or at some other level defined in the SA.

**16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?**
Sample file is:
ftp://filsrv.cicsnc.org/kknapp/gridsat/GridSat-CONUS.goes10.2003.10.07.1800.v01.nc
Other sample files can be provided in that directory

**17. What is the total data volume to be submitted?**

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 6TB
Number of Data Files: 1600000

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 750MB per Day
Data File Frequency: 192 per Day
Data Production Start: 2017-06-01

**18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.**

A version is in development that will provide information on clouds in the imagery. This is a usual request from users who access satellite data ("Can you tell me which pixels are clouds?").

A version of this data that also provide 1km visible data is in development.

The dataset could be expanded to pre GVAR data in the same version (thus expanding to coverage at the similar resolution to 1980).

Future revisions/modifications are envisioned based on user input.

**19. Describe the server that will connect to the ingest server at NCEI for submitting the data.**

Physical Location: Asheville, NC
System Name: shiva
System Owner: CICS-NC
Additional Information:

**20. What are the possible methods for submitting the data to NCEI? Select all that apply.**

1. FTP PULL
2. FTP PUSH
3. SFTP PUSH

**21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.**

1. Direct download links
2. Advanced web services (e.g., THREDDS Catalog Service)

**22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?**

No known constraints apply to the data.

**23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.**

GOES data is the 2nd most downloaded dataset from CLASS.
GOES data is recognized as the 4th most important dataset provided by the government.
The Gridsat-GOES dataset provides simplified access to this resource. By simplifying access, it reduces customer service requests and could enlarge the user base.

Not archiving this dataset means continuing to provide customer support to the dataset.

**24. Are the data archived at another facility or are there plans to do so? Please explain.**
No

**25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?**
There is interest in hosting the data one NOAA OneStop

**26. Do you have a data management plan for your data?**
No

**27. Have funds been allocated to archive the data at NCEI?**
No

**28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.**
N/A

**29. Is there a desired deadline for NCEI to archive and provide access to the data?**

| | |
|---|---|
| Archive by: | 2017-03-30 |
| Accessible by: | 2017-03-31 |

**30. Add any other pertinent information for this request.**
This has been identified as a potential dataset for NOAA onestop.

The archive does not need to be completed by the 2015-03-31 deadline, but some portion of the data should be available by that time (at least, that is my understanding).